

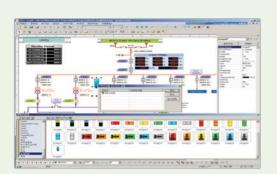






Powerful HMI/SCADA Software Incorporated with the State-of-the-Art Graphic Technology





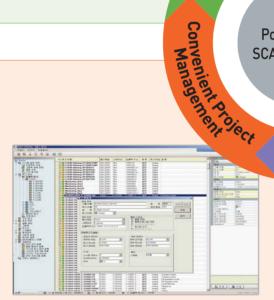
Through intelligent integration with XGT series, automatic tag registration and simulation can be used to easily create and maintain a project. Supports various communication drivers, and when it comes to tag, it supports both the physical layer and group-based logical layer, building a structured tag.

XGT-InfoU MAX TAG Dust-Proof Fan-less Ivy Bridge i5 Processo

- All-in-One composed of H/W + S/W
- Highly reliable considering use at harsh industrial sites
- · Various 3rd party PCI cards are available using built-in Full PCI Bus
- Strong power applied with the latest Intel i5 Core

to Infou Panel PC

Powerful HMI SCADA Software



InfoU offers development environment that complies with the UI standards of integrated MS Windows, so that users can easily create and maintain a project. All projects can be managed with a single tool, and work time can be reduced using UI browser classified by function. In addition, several user-friendly functions such as structure tag creation and CSV file support are provided.

Open Architecture

Supports various industrial protocols such as OLE DB and OPC, which enables easy connection with other systems or MES/ERP

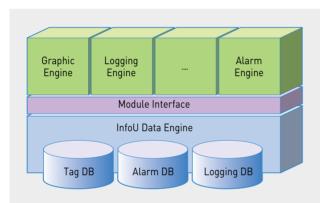
- Supports OPC DA Client/ Server.
- OPC DA Server is capable of sorting and selecting the tag to be shared, preventing critical tags to be opened to external applications.
- Using database link function, Oracle/MS SQL server and data can be easily exchanged with tags.
- Supports tag/character string search and modify functions.



Outstanding System Architecture

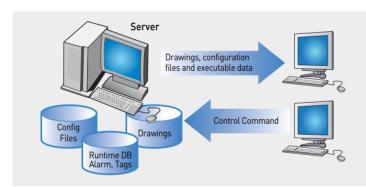
InfoU HMI/SCADA is designed with an excellent program architecture applied with the latest IT, and is fully equipped with stability, convenience and performance.

Process Management



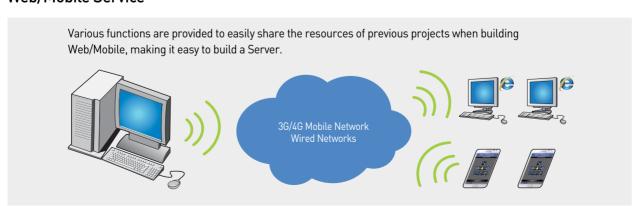
- InfoU is built with the innovative program architecture of independent structures for each function module.
 Upon system failure, it provides a Fault Recovery function.
- Built-in Watch Dog function performs self-recovery per module when a unit module is in the failure or error state and saves all error history onto database, so that users can easily identify failures or errors.
- Independent module structure ensures independency of each module, and even when partial module has failed, it can minimize an accident of shutting down the whole system.

Client/Server Architecture



Advanced Client/Server architecture synchronizes the server's project upon building a client project, so that the client does not have to perform engineering work. Users can simply perform configuration by designating a server.

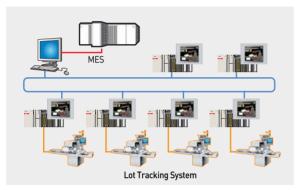
Web/Mobile Service



Convenient System Expansion

XGT InfoU that is applicable from field monitoring panels to wide SCADA system can change project attributes in order to expand a single monitoring system to a client/server architecture for previous projects.

Stand Alone System



Data of equipments are collected in real time to set a data transmission system that has the role of operators to comprehensively monitor and analyze operation status. Acts as a central master supervisor to execute a Real Time Monitoring function of field data

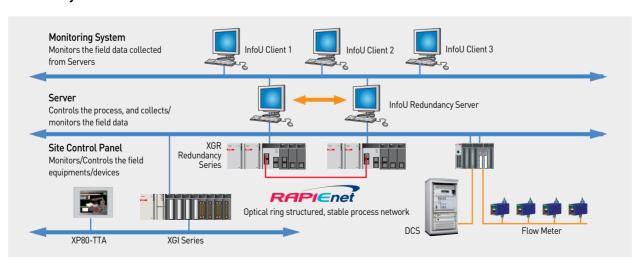
Basic information such as Down Time calculation of devices is provided to easily record operational data.

Wireless System



Using an exclusive 3G/4G Network Gateway driver that supports mobile networks, users can conveniently build Wireless Systems.

SCADA System



- Field/Site devices scattered in a remote place can be collected via an efficient network, and a wide range of alarm information can be managed.
- Using SOE module, site trip data are synchronized so as to analyze the cause(s) of an accident accurately.
- Using database link and operation function, tag values can be input/output at general database such as MS SQL and ORACLE, and efficient data sharing with MES or ERP system is possible.



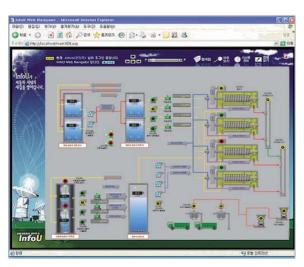
Expansible System Configuration

XGT InfoU Mobile Server supports iOS, Android devices and monitors the site at any place that user wants



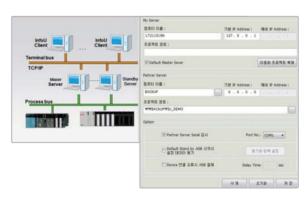
- Screens can be created using a mobile graphic editor.
- Includes a tag monitoring function, user group overview function and alarm monitoring function.
- Client that runs in OS and Android environments is provided.
- ** Client Apps can be downloaded from Google Play Store and Apple App Store

XGT InfoU Web Server performs an automatic web conversion of the existing project data using a Wizard function.



- Users without expertise on configuration of a Web Server or Web Site can easily build it
- Web browser is used for real-time monitoring /control and history data can be monitored through trond
- New web site can be created and virtual folders can be added to the existing web site for link connection.

XGT InfoU supports Dual System for stable system operation.



- When a Master Server is in failure, it automatically switches to a Standby Server to provide reliable system configuration.
- RS-232C communication line is used to monitor the status of partner servers.
- Manual Switching: Manual switching from the menu and script is possible.
- Supports time synchronization among Server1

 Server2 Client
- RS-232C communication line is used to monitor the status of partner servers.
- Project Duplication: A project is automatically duplicated to prevent errors providing user convenience.

Various Basic Functions

Special functions used on site are installed to assist users in building HMI.

Minimum 50ms, High-Speed Trend



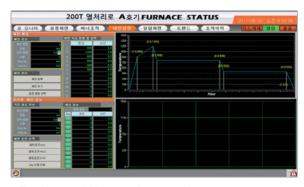
- Function provided for the system that requires high-speed trend screens such as a tester, and without special equipment or exclusive PLC program, it can be configured using only XGT InfoU.
- Provides templates for users to easily build a system, so even novice users can do so.

21 CFR Part 11(Option)



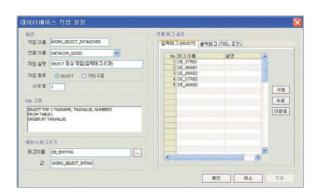
- InfoU conforms to the 21CFR Part 11 regulation of the US FDA.
- Supports the Computer Validation specifications of food and drug areas.

Pattern Trend



- Function provided to configure equipment required for pattern operation, and users can use this function only through tag registration.
- Pattern can be edited during runtime and a special function that is expanded to scripts can be used for expansion to professional functions.

Database Link



Without using a separate program or script, it uses only basic functions to send the data generated on site to the main Database Server. Thus, any user without the knowledge on Database can build a system.



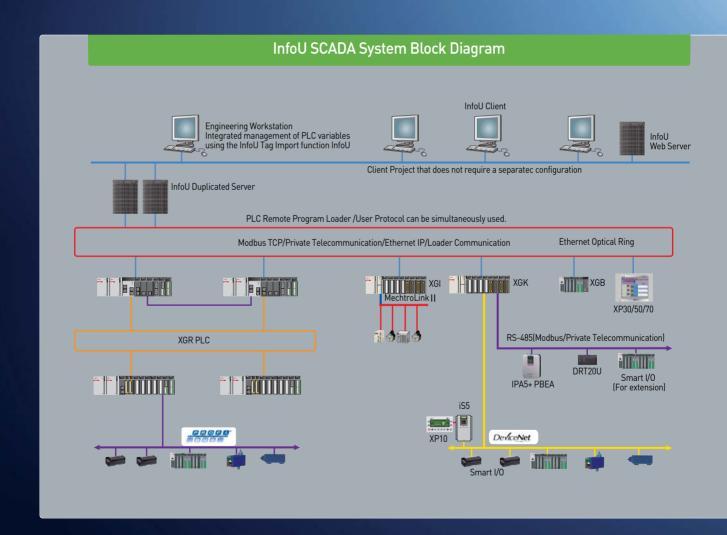
XGT InfoU SCADA System

SCADA System is an abbreviation for "Supervisory Control And Data Acquisition System", which is also referred to as the "Centralized Remote Monitoring/Control System".

The required main functions are specified in ANSI (American National Standards Institute) /IEEE(Institutes of Electrical and Electronics Engineers) Std c37.1-1987 as described below.

- ① An alarm function of the monitoring system that perform the predefined operations based on the alarm status of a remote device;
- ② A monitoring/control function that operates the external remote device manually/automatically (optional) or in combination of both;
- ③ An indicator (display) function of the monitoring system that receives, displays and records the information on remote device status;
- (4) An accumulation function that displays and records the information on digital pulse through reception and summation; and
- ⑤ A function to recognize the predefined events and provide the data on generated events.

XGT InfoU SCADA System offers the functions that satisfy the these requirements.



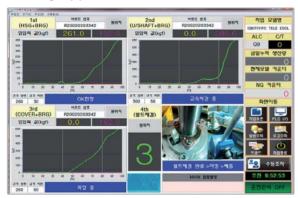


Private-Line based InfoU SCADA System Block Diagram InfoU Client InfoU Duplicated Server InfoU Web Server Engineering Workstation Centralized management of InfoU/PLC program **Dual Ethernet** XGR PLC Central Communication Unit CDMA Modem Simultaneous use of Remote Program Loader/ User Protocol via 2-step connection is possible Set Type Modem Communication setting using parameters without a separate program Private Net Modbus RTU/Private Telecommunication/ User Definition / Loader Communication CDMA Modem Private Line Modem XGR PLC CDMA Modem for Backup (Duplication of communication through wired/wireless lines) RS-485(Modbus/Private Telecommunication) illullu DRT20U Smart I/0 (For xtension) iS5 IPA5+ PBEA XP 30/50/70 XP10 DeviceNet. Smart I/0



Various Application Cases

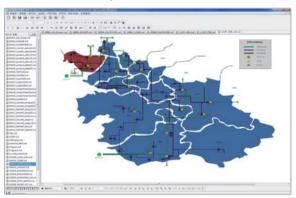
Testing Apparatus for Parts



Key Function

- High Speed Data Trend
- · Save, inquire and print the data on quality
- Linked to the main DB (EMS)

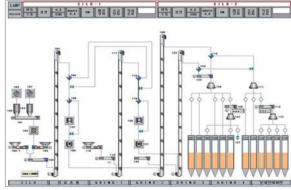
Metro SCADA System



Key Function

- Wide area network management using wires/ wireless communication networks
- · Notify processing of alarm, SMS and Sound
- Server-Client dual system

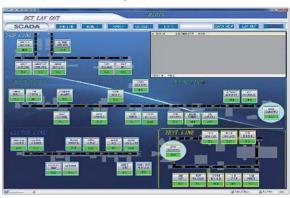
Process Monitoring System



Key Function

- Factory (Plant) and building automation system used
- Schedule control function
- Inquiry of history data, Report and Trend

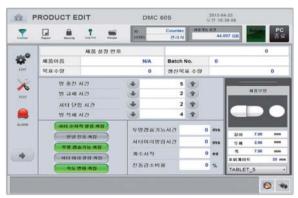
Facility Monitoring System



Key Function

- Monitoring the facility status
- Save and inquire the status data to/from the Database
- · History Logging, Trend and Report

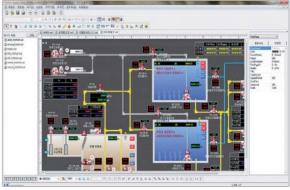
21 CFR Part 11



Key Function

- User authorization management, and save/inquire the operation history
- Save the data on quality and status, and report printing (PDF)
- · Alarm data management and batch management

Water Treatment System



Key Function

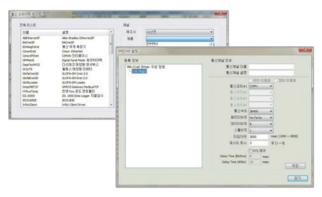
- Monitoring data and process of various sensors
- Data Logging, Report, History and Trend
- Web & Mobile

Communication Drivers

XGT InfoU provides a lot of communication drivers including LSIS's PLC and those of many other world-class brands, allowing easy system configuration by users.

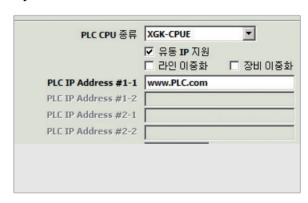
* Main industrial protocol drivers including DNP 3.0 and BACnet/IP are provided.

Various Communication Drivers



- Offers 50 types of various communication drivers for PLC and Controller.
- · Provides user-defined communication drivers for users to directly register protocols/devices.
- Operation status is provided as a system tag and I/O status can be displayed on screen.
- Provides industrial standard protocol drivers such as BACNet/TCP, DNP 3.0 and IEC61850.
- Provides drivers to XGT InfoU for FEP configuration.
- Various communications with an OPC Server via an OPC client driver.

Dynamic IP Address



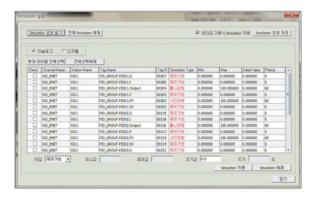
- Supports Dynamic IP using DDNS service to assist system development using site Dynamic IP.
- · Users can build remote communication without costly fixed IP.

XGR Dual Network Support



- · By supporting XGR dual network, it is automatically switched within 100ms when a line is in failure. Thus, the system is uninterrupted even when communication failure is generated.
- Along with XGT InfoU dual system, Non-Stop System can be easily configured.

InfoU Run-Time Simulation

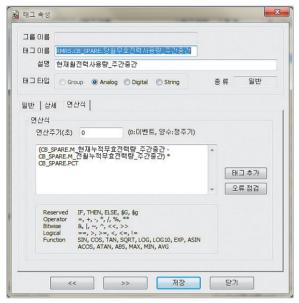


Without a device like PLC, a simulator can be used to create Sin wave, triangular wave and random values, and functions can be checked using a display screen.



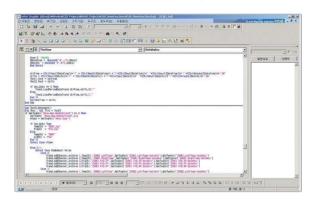
Development Environment

Tag Expression



- In XGT InfoU, arithmetic expressions such as four fundamental arithmetic operations, conditional statements and variables can be used to calculate a memory tag.
- In XGT InfoU, a formula is applied to expression attributes of a subject tag which is the result of calculation.
- Upon activation of a data processing engine, it compiles all the expressions included in a tag and calculates by setting each calculation set and priority.
- Thus, users use existing tag values to create a new tag value, without help of PLC or scripts.

Embedded Visual Basic Engine



- For implementation of user-defined unique functions, VBS is used to build expanded objects.
- Compatible with existing MS office scripts and pre-defined sources can be reused.
- XGT InfoU's internal functions are provided to easily program at the point of operation.
- Various operation triggers like mouse, events and initialization are provided to easily program at the point of operation.

Tag Expression

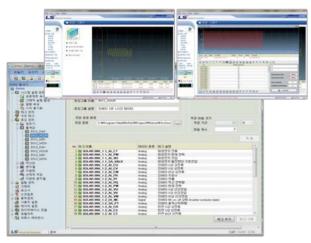
- Replaced string can be used on screen as it is listed in a library as template when types like PID controller and pumps repeatedly appear on screen.
- Using the replaced string, a graphic library or screen template containing user attributes can be configured.



Logging

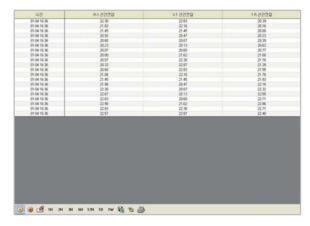
XGT InfoU supports a wide range of storage methods for easy management of collected data, and uses various graphic objects and integrated reports for users to easily access saved data. XGT InfoU's externally expanded API is used for easier access to saved data from external applications.

Logging Group without a limit to the number of tags



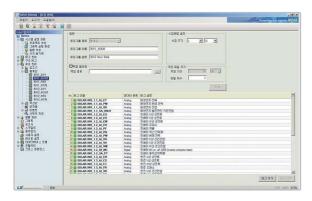
- XGT InfoU provides a strong tool for data analysis, which allows users to easily and quickly check collected data.
- External users can immediately view collected data using a Web Server via Web Browser.
- Data by period can be saved using an automatic backup function.
- Report function can be used to easily print out a report on collected data.

Record on Event Method



- Besides the general logging method in which data are saved by time, non-cycle data generated under various methods such as Tag values can be recorded using event method.
- Time values are saved when recorded by event, and users can create a list of events to be used in a report, if necessary.

Records based on Statistical Calculation



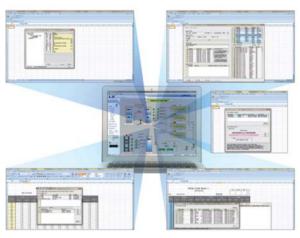
XGT InfoU can create statistical data without using an external application or separate script.

- * Statistical data can be used to easily create a complicated report.
- * Calculated statistical data can be directly used at Trend and so on.
- * In case of a digital tag, its holding time, and operating numbers can be directly



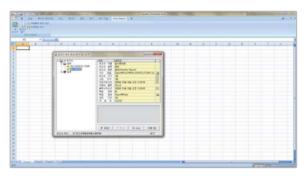
Convenient System Expansion

XGT InfoU provides a Wizard function for developers and operators to easily create a form and build a report system.



- Wizard function can be used in reports, which enables developers and operators to register a report form without relevant or additional skills.
- Fixed Cycle: Current analogue value and current digital status
- Statistical Value (Analogue):
 Current value, minimum value, maximum value, minimum time, maximum time, mean, sum and the number of samplings
- Statistical Value (Digital): On counts, runtime and the number of changes
- Daily, weekly and monthly reports can be printed or saved automatically, and duration can be assigned upon saving.
- Users can select and print any report form manually, if required.

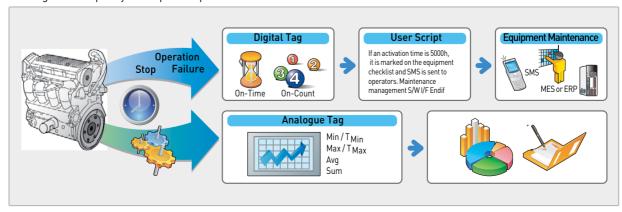
XGT InfoU inquires logging data defined in a logging group to create or print a report on Excel Files at an assigned time.



- Hourly, daily, weekly, monthly, yearly and temporary reports can be printed at any desired time.
- Convenient to create similar types of reports using a report duplication function.
- Easy to create a report layout using a drag-anddrop method.
- Since it uses Excel file format, functions such as the graph, diagram, form and statistics can be used as well.
- Tags used in reports can be inquired at Cross Reference, so usage in reports can be checked upon tag deletion and modification.

Support for Various Administrative Tasks with Easy and Quick Application Development

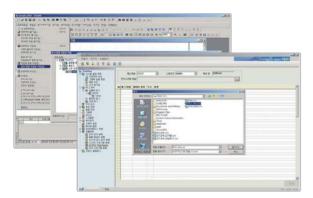
Statistical data can be configured using only parameters without the assistance of a separate script or external application, enabling users to quickly develop the required functions.



XGT Integration System

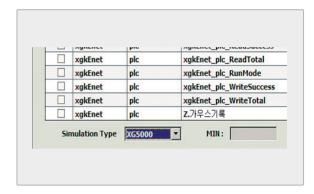
Tags created in XG5000 S/W are automatically registered in XGT InfoU to reduce engineering time.

Tag Integration



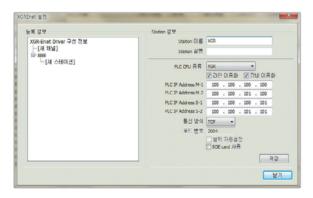
- Tags created in XG5000 S/W are automatically registered in XGT InfoU to reduce engineering time.
- Variable names used in PLC are not changed to enhance intuitive development. Internal variables of PLC can be directly called from HMI, requiring no additional memory management program.

Simulator Link



InfoU run-time simulator can be connected with XG5000 simulator to share data without a PLC hardware.

XGR Dual Network Support

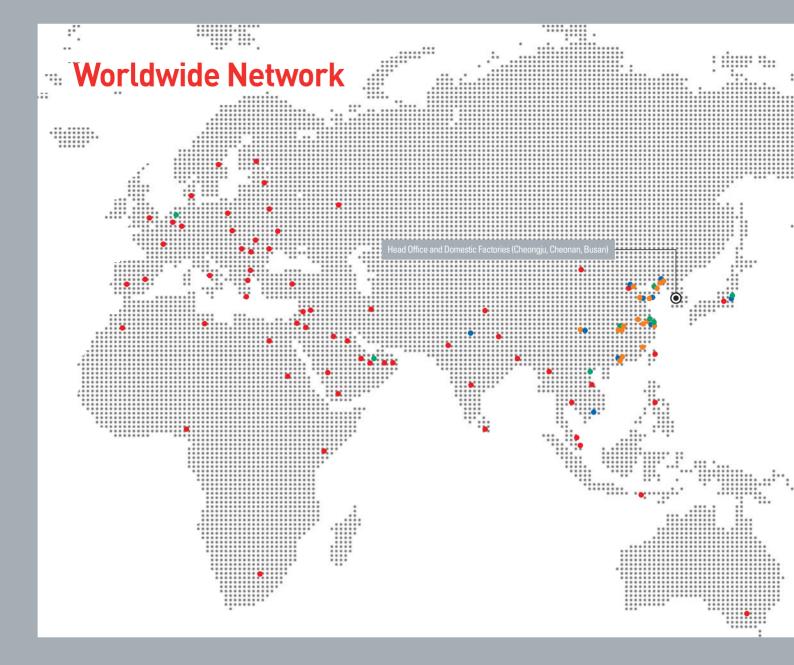


- · By supporting XGR dual network, it is automatically switched within 100ms when a line is in failure. Thus, the system is uninterrupted even when communication failure is generated.
- Along with XGT InfoU dual system, Non-Stop System can be easily configured.

XGT SOE Module Interface



- Supports a time synchronization SOE module, which is XGT extension module, for automatic integration of SOE alarm data created in PLC into XGT InfoU alarm system.
- Upon creation of SOE alarm, an alarm group can be assigned for management by type and by location. If required, a built-in alarm viewer is used for analysis.



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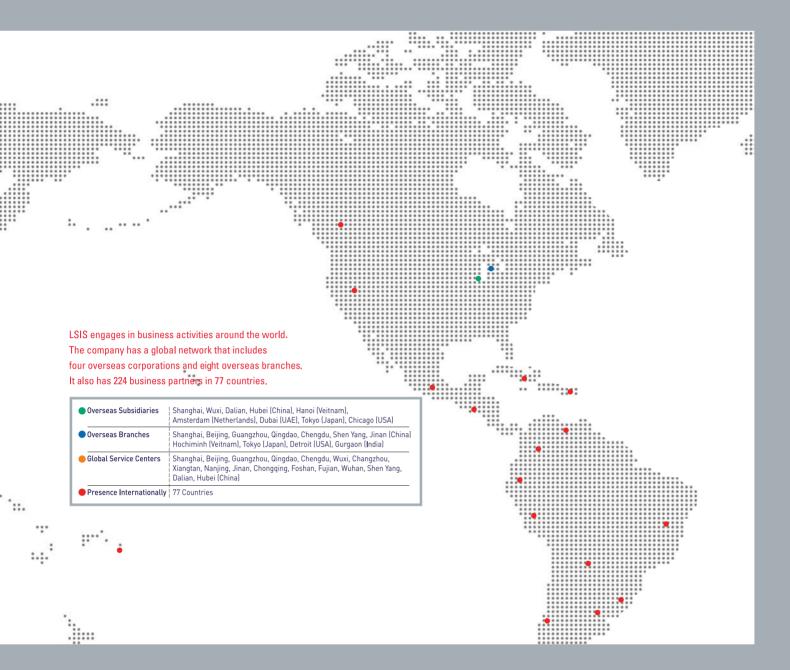












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Green Innovators of Innovation



- · For your safety, please read user's manual thoroughly before operating
- · Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact qualified service technician when you need maintenance. Do not disassemble or repair by yourself !
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.

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